

400-544

10/7/2014

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

1/11



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OCT 07 2014

Denise Dzialo
Registration Specialist
Chemtura Corporation
199 Benson Rd
Middlebury, CT 06749

Subject: Label Amendment – Addition of per seed application rates to the Directions for Use section, company name change, and revisions to container disposal language
Product Name: Rancona 3.8 FS
EPA Registration Number: 400-544
Application Date: 6/23/2014
Decision Number: 493000

Dear Ms. Dzialo:

The amended master and supplemental labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed master and supplemental labeling before you release the product for shipment with the new labeling. In the expiration date statement on the supplemental label, include the date 10/7/2017.

In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Lindsay Roe by phone at 703-347-0506, or via email at roe.lindsay@epa.gov.

Sincerely

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish, Product Manager 22
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

2/11

Rancona® 3.8 FS

SEED TREATMENT FUNGICIDE

Active Ingredient:	
ipconazole (CAS No. 125225-28-7).....	40.7%*
Other Ingredients:	59.3%
Total:.....	100.0%

*Contains 3.77 pounds of active ingredient per gallon.

*Contains 452 grams of active ingredient per liter.

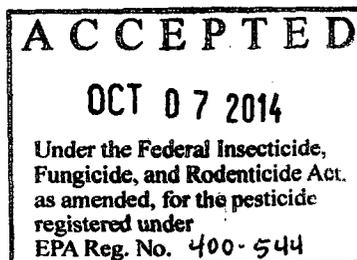
KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
MEDICAL EMERGENCY	800-292-5898
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300
PRODUCT SAFETY DATA (MSDS)	866-430-2775
For PRODUCT USE INFORMATION: Call 800-243-2850	

Net Contents:

EPA REG. NO. 400-544
EPA EST. NO.
017/

Manufactured for:
MacDermid Agricultural Solutions, Inc.
199 Benson Road
Middlebury, CT 06749



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or Viton. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate spilled treated seed. This fungicide may persist in soil and long-term use in the same field may result in an accumulation of active ingredient. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

GENERAL

Rancona[®] 3.8 FS is a systemic broad-spectrum fungicide and seed dressing specifically for protection against soilborne and seedborne disease of crop plants. Rancona 3.8 FS is active against *Rhizoctonia*, *Fusarium*, *Cochliobolus sativus*, *Diaporthe*, and *Phomopsis* as well as against smuts and bunts in cereals (see CROP for specific diseases). In addition, Rancona 3.8 FS provides activity against weakly pathogenic fungi such as *Mucor*, *Rhizopus*, *Aspergillus*, *Penicillium*, *Alternaria*, *Sclerotinia*, *Botrytis*, and *Cladosporium*.

Rancona 3.8 FS does not provide activity against *Pythium* spp. or *Phytophthora* spp. To provide best seedling protection against a wide array of fungal pathogens, use Rancona 3.8 FS in combination with a product containing metalaxyl (such as Belmont[™] 2.7 FS) at the label rate registered for your crop and disease complex. Consult the label for appropriate use rate and follow all use instructions and precautions for both products. Do not use with other seed treatment products unless previous experience assures compatibility.

Rancona 3.8 FS may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist-type commercial seed treatment equipment.

Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

NOTE: This product is undyed. The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately colored with a suitable colorant to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, Part 2.25. Any colorant added to treated seed must be cleared for use under 40CFR, Part 153.155.

SEED TREATMENT EQUIPMENT

Rancona 3.8 FS may be applied with mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. Uniform application to seed is necessary to ensure best disease protection and optimum performance. Seed should be sound and well-cured before treatment. Refer to the label rates below. Product requires dilution prior to application. Contact your local Chemtura representative or supplier for specific recommendations.

TREATED SEED LABELING

Seed that has been treated with this product that is then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag:

"This bag contains seed treated with ipconazole. Do not use for Food, Feed, or Oil Purposes. Persons opening this bag or loading/pouring the treated seed must wear a long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves. After seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. *Exception:* Once seeds are planted and covered by soil or other planting media, the Worker Protection Standard (WPS) allows workers to enter the treated area without restriction."

"Do not graze or feed livestock on treated areas or hay grown from treated peanut seed."

**SEED TREATMENT: APPLICATION RATES
FAILURE TO FOLLOW DIRECTIONS ON THIS LABEL MAY RESULT IN CROP INJURY OR
POOR DISEASE CONTROL.**

CEREAL GRAINS (includes Grains, Forage and Silage)			
Crop	Rancona 3.8 FS Application Rate	Diseases Controlled	Diseases Partially Controlled*
Wheat	0.051 to 0.085 fl.oz. / 100 lb seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). Loose Smut (<i>Ustilago tritici</i>). Common bunt (<i>Tilletia caries</i> , <i>T. foetida</i>).	Common Root Rot (<i>Cochliobolus sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)
Barley	0.051 to 0.085 fl.oz. / 100 lb seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). True Loose Smut (<i>Ustilago nuda</i>) Covered Smut (<i>U. hordei</i>) False Loose Smut (<i>U. nigra</i>)	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>) Leaf stripe (<i>Pyrenophora graminea</i>)
Oats	0.051 to 0.085 fl.oz. / 100 lbs seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). Loose Smut (<i>Ustilago avenae</i>). Covered Smut (<i>U. kolleri</i>).	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)

CEREAL GRAINS (includes Grains, Forage and Silage)			
Crop	Rancona 3.8 FS Application Rate	Diseases Controlled	Diseases Partially Controlled*
Rye, Triticale	0.051 to 0.085 fl.oz. / 100 lbs seed To deliver 0.0004 - 0.0006 mg a.i. per seed, apply 0.003 - 0.005 fl.oz. per 100,000 seeds (Based on average of 18,850 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>).	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)
Buckwheat, Millet	0.051 to 0.085 fl.oz. / 100 lbs seed	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne fungi including <i>Fusarium</i> .	
Field Corn, Popcorn	0.044 to 0.085 fl.oz. / 100 lbs seed For field corn: To deliver 0.0035 - 0.0067 mg a.i. per seed, apply 0.021 - 0.040 fl.oz. per 80,000 seeds (Based on average of 1,680 seeds per lb) For popcorn: To deliver 0.0019 - 0.0037 mg a.i. per seed, apply 0.012 - 0.022 fl.oz. per 80,000 seeds (Based on average of 3,060 seeds per lb)	Seed rot, damping off and seedling blight caused by seed and soil borne fungi.	Root Rot
Sweet Corn	0.085 fl.oz. / 100 lbs seed To deliver 0.0036 mg a.i. per seed, apply 0.022 fl.oz. per 80,000 seeds (Based on average of 3,150 seeds per lb)	Seed rot, damping off and seedling blight caused by seed and soil borne fungi.	
Sorghum	0.051 to 0.17 fl.oz. / 100 lbs seed	Seed rot, damping off and seedling blight caused by seed and soil borne fungi.	

* Partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial disease control.

SOYBEANS

For protection against seed rot, damping off and seedling blight including *Fusarium* (seed and soil borne), *Rhizoctonia solani*, and seed borne *Diaporthe* (*Phomopsis*). Also protects against general seed rots caused by saprophytic organisms such as *Penicillium*, and *Aspergillus*, and protects against seed-borne *Botrytis* and *Sclerotinia*. Apply 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

To deliver 0.0040 mg a.i. per seed, apply 0.043 fl.oz. per 140,000 seeds (Based on average of 2,800 seeds per lb)

PEANUTS

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

Do not graze or feed livestock on treated areas or on hay grown from treated seed.

ROOT VEGETABLES

Beet (sugar and garden), burdock (edible), carrot, celeriac, chervil (turnip-rooted), chicory (roots), chufa, dandelion (roots), ginseng, parsley (turnip-rooted), parsnip, radish, radish (oriental), rutabaga, salsify, salsify (black), salsify (Spanish), skirret, turnip and yam bean.

For protection against seedborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed or propagating root or tuber material.

SUNFLOWER

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

BRASSICA (COLE) LEAFY VEGETABLES

Broccoli, broccoli (Chinese), broccoli raab, Brussels sprouts, cabbage (including Chinese bok choy, Chinese napa, and Chinese mustard), cauliflower, cavalo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, and rape greens.

For protection against seedborne and soilborne fungi that cause seed decay, damping off, and seedling blight, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

CUCURBIT VEGETABLES

Chayote, Chinese waxgourd, citron melon, cucumber, gherkin, edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Momordica, all muskmelon, pumpkin, squash and watermelon.

For protection against seedborne and soilborne fungi that cause seed decay, damping off, and seedling blight, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

COTTON

For protection against seed and soil borne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

LEGUME VEGETABLES (SUCCULENT OR DRIED)

6/11
Bean (*Lupinus*). (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna*) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea (*Pisum*) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean.

For protection against seed rot, damping off and seedling blight including *Fusarium* (seed and soil borne) and *Rhizoctonia solani*. Also protects against general seed rots caused by saprophytic organisms such as *Penicillium* and *Aspergillus*, and protects against seed-borne *Botrytis* and *Sclerotinia*. Provides suppression of seed borne Anthracnose of dry bean. Apply 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

For beans: To deliver 0.0071 mg a.i. per seed, apply 0.053 fl.oz. per 100,000 seeds (Based on average of 1,600 seeds per lb)

For peas: To deliver 0.0035 mg a.i. per seed, apply 0.027 fl.oz. per 100,000 seeds (Based on average of 3,200 seeds per lb)

LEAFY VEGETABLES (Except Brassica Vegetables)

Amaranth (leafy, Chinese spinach, tampala), arugula, cardoon, celery (including Chinese), celtuce, chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden and upland), dandelion, dock, endive, fennel (Florence, finocchio); lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio, rhubarb, spinach, spinach (New Zealand), spinach (vine), and Swiss chard.

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.34 fl. oz. of RANCONA 3.8 FS per 100 pounds of seed.

Spinach: For control of seed borne *Verticillium dahliae* to prevent the introduction of this disease into soils through infected seed, as well as for protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight. Apply 0.34 fl. oz. of RANCONA 3.8 FS per 100 pounds of seed.

MUSTARD, RAPE, CANOLA

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, as well as for protection against *Phoma lingam* causing blackleg, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

ORNAMENTAL FLOWERS

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

CONIFERS

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.34 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

TURF GRASS

For protection against seedborne and soilborne fungi that cause seed decay, damping-off, and seedling blight, apply 0.051 – 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight. Avoid excess heat. Do not freeze. ALWAYS SHAKE OR STIR WELL BEFORE USE.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Cover or incorporate spilled treated seeds.

EQUIPMENT CLEANING: Following applications, all seed treatment equipment should be thoroughly rinsed with water. Do not contaminate water by disposal of equipment washwater or rinsate.

CONTAINER DISPOSAL:

Nonrefillable Container

Plastic Containers: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer container for recycling if available, reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Triple rinse as follows:

For containers with capacity equal to or less than 5 gallons: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Add water - at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume - and recap. Shake for 30 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

For containers with capacities greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Add water - at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition, with a maximum of 1/4 of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

Refillable Container

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container.

Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Add water - at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition, with a maximum of 10% of the container volume. Replace and tighten closure. Agitate vigorously or recirculate the rinsate with a pump for at least 2 minutes, ensuring that the rinsate rinses the walls of the container. Empty the rinsate into application equipment or rinsate collection system, for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

Recycling

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or www.acrcycle.org.

IMPORTANT NOTICE - Chemtura Corporation warrants that this product conforms to the chemical description and is reasonably fit for the purposes stated on the label only when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and, to the extent consistent with applicable law, the buyer assumes the risk of any such use.

Treatment of highly mechanically damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small test sample of seed before treating commercial quantities with a selected chemical treatment. Due to seed quality and seed storage conditions beyond the control of Chemtura, Chemtura makes no claims or guarantees as to germination of carry-over seed.

Rancona[®] is a registered trademark of Chemtura Corporation. Chemtura AgroSolutions[™] and Belmont[™] 2.7 FS are trademarks of Chemtura Corporation.

©Copyright 2014, Chemtura Corporation

8/11

SUPPLEMENTAL LABEL

This supplemental label expires on ??/??/2017 and must not be used or distributed after this date.

Rancona[®] 3.8 FS

SEED TREATMENT FUNGICIDE

EPA Reg. No. 400-544

**For Use on Cereal Grains, Soybeans and Legume Vegetables
(Succulent or Dried)**

Active Ingredients: (% by weight)	
ipconazole (CAS No. 125225-28-7).....	40.7%*
Other Ingredients:	59.3%
Total:.....	100.000%

*Contains 3.77 pounds of active ingredient per gallon.

*Contains 452 grams of active ingredient per liter.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

THIS LABEL IS IN ADDITION TO THE STANDARD FEDERAL LABEL ON THE CONTAINER

Follow all applicable directions, restrictions and precautions on this supplemental labeling and the main EPA registered label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label and the federal label for this product must be in the possession of the user at the time of the pesticide application.

Read the label affixed to the container for Rancona 3.8 FS before applying. Use of Rancona 3.8 FS according to this labeling is subject to the use precautions and limitations imposed on the label affixed to the container for Rancona 3.8 FS.

Manufactured for:
MacDermid Agricultural Solutions, Inc.
199 Benson Road
Middlebury, CT 06749

ACCEPTED
OCT 07 2014

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 400-544

017A/

NOTE: This product is undyed. The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately colored with a suitable colorant to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, Part 2.25. Any colorant added to treated seed must be cleared for use under 40CFR, Part 153.155.

SEED TREATMENT EQUIPMENT

Rancona 3.8 FS may be applied with mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. Uniform application to seed is necessary to ensure best disease protection and optimum performance. Seed should be sound and well-cured before treatment. Refer to the label rates below. Product requires dilution prior to application. Contact your local Chemtura representative or supplier for specific recommendations.

SEED TREATMENT: APPLICATION RATES

CEREAL GRAINS (includes Grains, Forage and Silage)			
Crop	Rancona 3.8 FS Application Rate	Diseases Controlled	Diseases Partially Controlled*
Wheat	0.051 to 0.085 fl.oz. / 100 lb seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). Loose Smut (<i>Ustilago tritici</i>). Common bunt (<i>Tilletia caries</i> , <i>T. foetida</i>).	Common Root Rot (<i>Cochliobolus sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)
Barley	0.051 to 0.085 fl.oz. / 100 lb seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). True Loose Smut (<i>Ustilago nuda</i>) Covered Smut (<i>U. hordei</i>) False Loose Smut (<i>U. nigra</i>)	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>) Leaf stripe (<i>Pyrenophora graminea</i>)
Oats	0.051 to 0.085 fl.oz. / 100 lbs seed To deliver 0.0005 - 0.0009 mg a.i. per seed, apply 0.004 - 0.007 fl.oz. per 100,000 seeds (Based on average of 13,000 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>). Loose Smut (<i>Ustilago avenae</i>). Covered Smut (<i>U. kolleri</i>).	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)

CEREAL GRAINS (includes Grains, Forage and Silage)			
Crop	Rancona 3.8 FS Application Rate	Diseases Controlled	Diseases Partially Controlled*
Rye, Triticale	0.051 to 0.085 fl.oz. / 100 lbs seed To deliver 0.0004 - 0.0006 mg a.i. per seed, apply 0.003 - 0.005 fl.oz. per 100,000 seeds (Based on average of 18,850 seeds per lb)	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne <i>Fusarium</i> and <i>Cochliobolus sativus</i> . Early Season Root Rot (<i>Rhizoctonia</i>).	Common Root Rot (<i>C. sativus</i>) Crown and Foot Rot (<i>Fusarium</i>)
Buckwheat, Millet	0.051 to 0.085 fl.oz. / 100 lbs seed	General seed rots (such as those caused by <i>Aspergillus</i> and <i>Penicillium</i>). Seed rot, damping off and seedling blight caused by seed and soil borne fungi including <i>Fusarium</i> .	

* Partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial disease control.

SOYBEANS

For protection against seed rot, damping off and seedling blight including *Fusarium* (seed and soil borne), *Rhizoctonia solani*, and seed borne *Diaporthe* (*Phomopsis*). Also protects against general seed rots caused by saprophytic organisms such as *Penicillium*, and *Aspergillus*, and protects against seed-borne *Botrytis* and *Sclerotinia*. Apply 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

To deliver 0.0040 mg a.i. per seed, apply 0.043 fl.oz. per 140,000 seeds (Based on average of 2,800 seeds per lb)

LEGUME VEGETABLES (SUCCULENT OR DRIED):

Bean (*Lupinus*) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (*Phaseolus*) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (*Vigna*) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea (*Pisum*) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean.

For protection against seed rot, damping off and seedling blight including *Fusarium* (seed and soil borne) and *Rhizoctonia solani*. Also protects against general seed rots caused by saprophytic organisms such as *Penicillium* and *Aspergillus*, and protects against seed-borne *Botrytis* and *Sclerotinia*. Provides suppression of seed borne Anthracnose of dry bean. Apply 0.085 fl. oz. of Rancona 3.8 FS per 100 pounds of seed.

For beans: To deliver 0.0071 mg a.i. per seed, apply 0.053 fl.oz. per 100,000 seeds (Based on average of 1,600 seeds per lb)

For peas: To deliver 0.0035 mg a.i. per seed, apply 0.027 fl.oz. per 100,000 seeds (Based on average of 3,200 seeds per lb)

11/11

TREATED SEED LABELING

Seed that has been treated with this product that is then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag:

"This bag contains seed treated with ipconazole. Do not use for Food, Feed, or Oil Purposes. Persons opening this bag or loading/pouring the treated seed must wear a long-sleeved shirt, long pants, shoes, socks and chemical-resistant gloves. After seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: Once seeds are planted and covered by soil or other planting media, the Worker Protection Standard (WPS) allows workers to enter the treated area without restriction."